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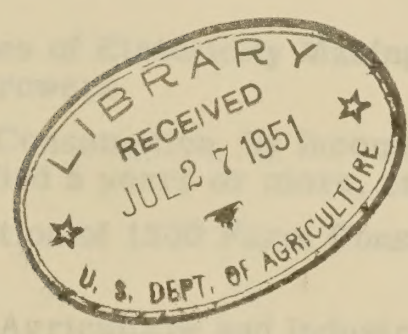
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3  
**GRAPHIC SUMMARY**  
 of the  
**REA PROGRAM**

Figure

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- 3 Percentage of Farms Receiving Central Station Electric Service, June 30, 1950
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**UNITED STATES DEPARTMENT OF AGRICULTURE**

12 U.S. RURAL ELECTRIFICATION ADMINISTRATION.  
 5c  
 1951





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## LEGEND

ENERGIZED  
ALLOCATIONS MADE OR  
CONSTRUCTION IN PROGRESS

JANUARY 1, 1951

PUERTO RICO & VIRGIN ISLANDS

ST. CROIX

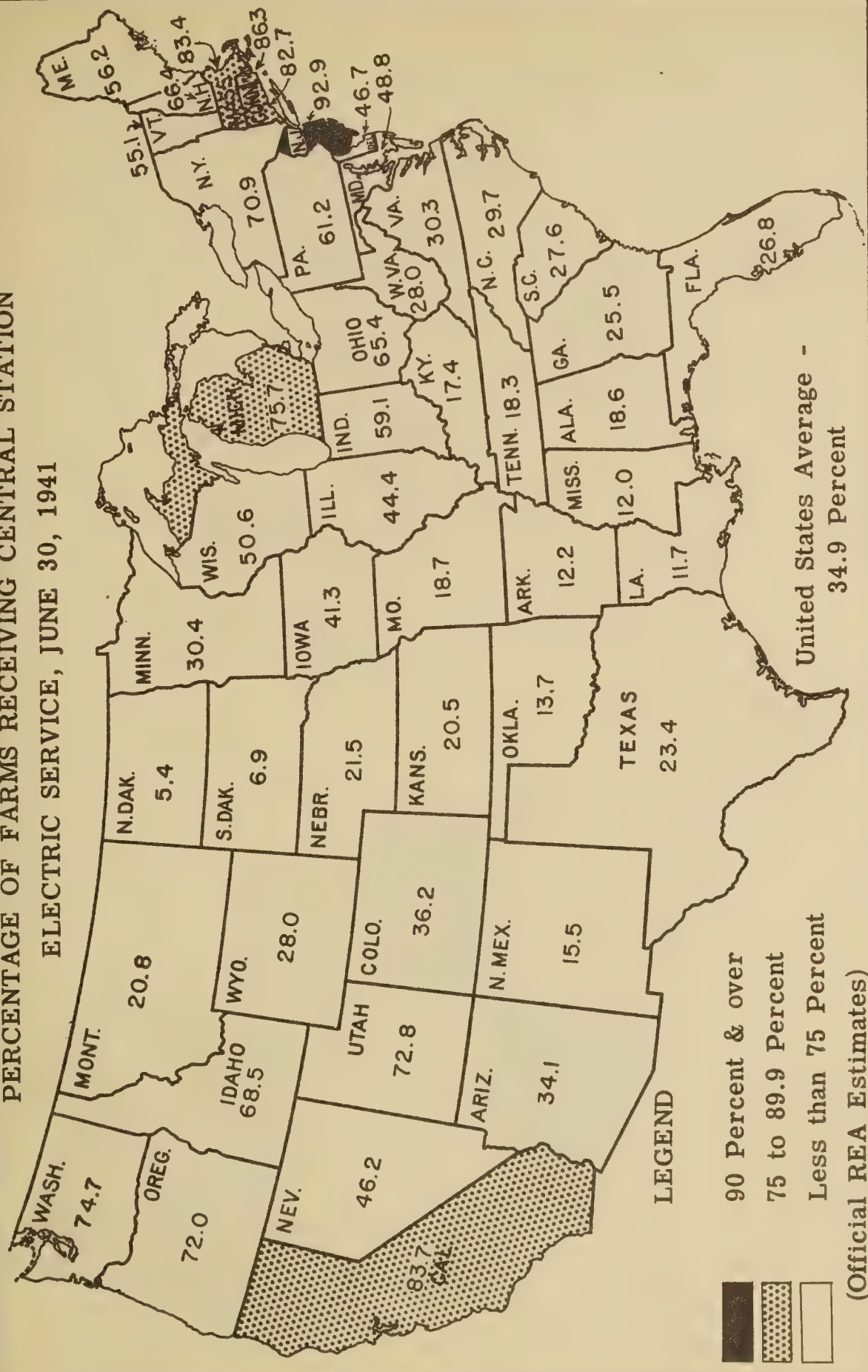
ALASKA

RURAL ELECTRIFICATION ADMINISTRATION





# PERCENTAGE OF FARMS RECEIVING CENTRAL STATION ELECTRIC SERVICE, JUNE 30, 1941



**LEGEND**

- 90 Percent & over
- 75 to 89.9 Percent
- Less than 75 Percent

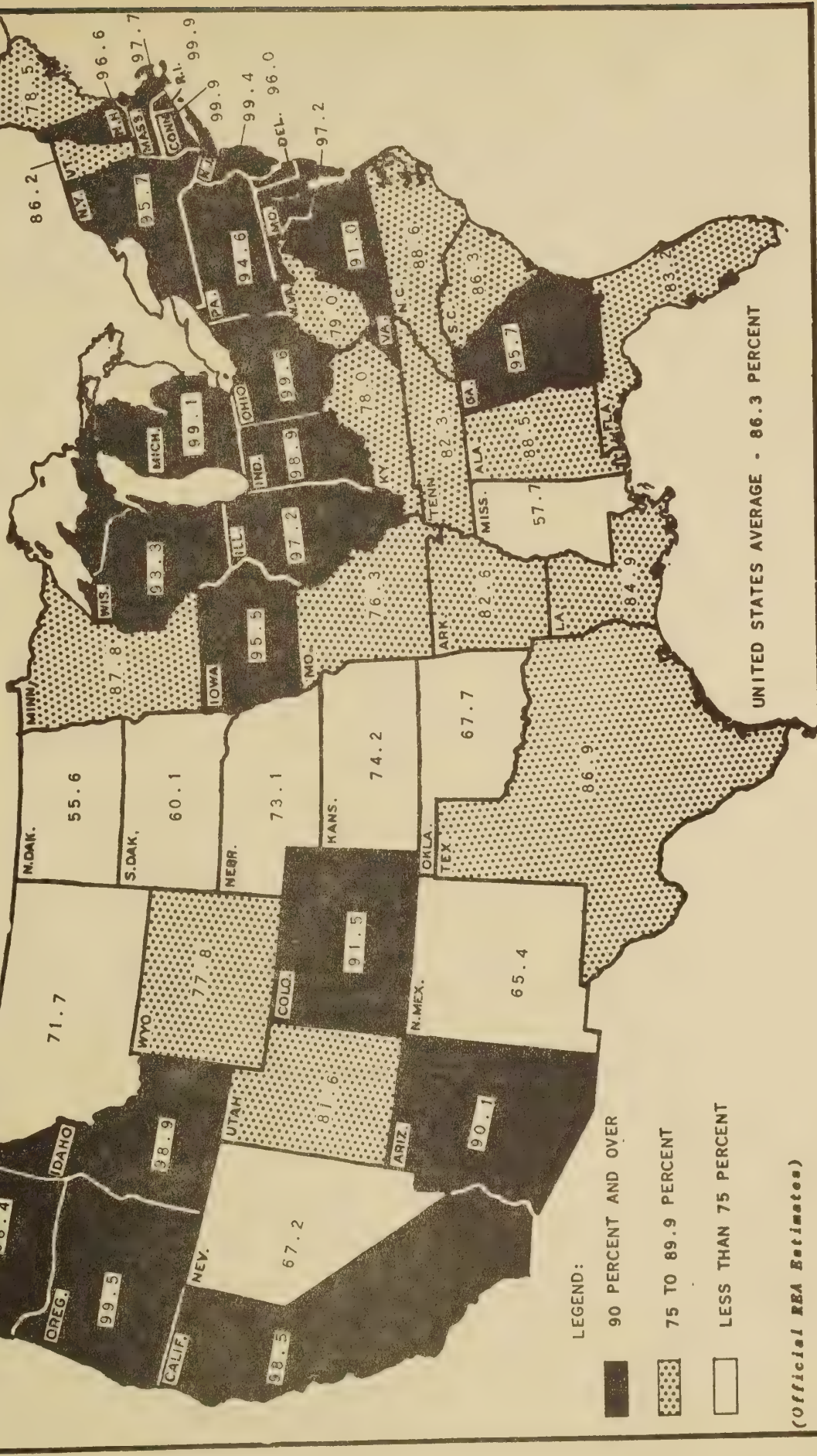
(Official REA Estimates)

United States Average -  
34.9 Percent





# PERCENTAGE OF FARMS RECEIVING CENTRAL STATION ELECTRIC SERVICE, JUNE 30, 1950



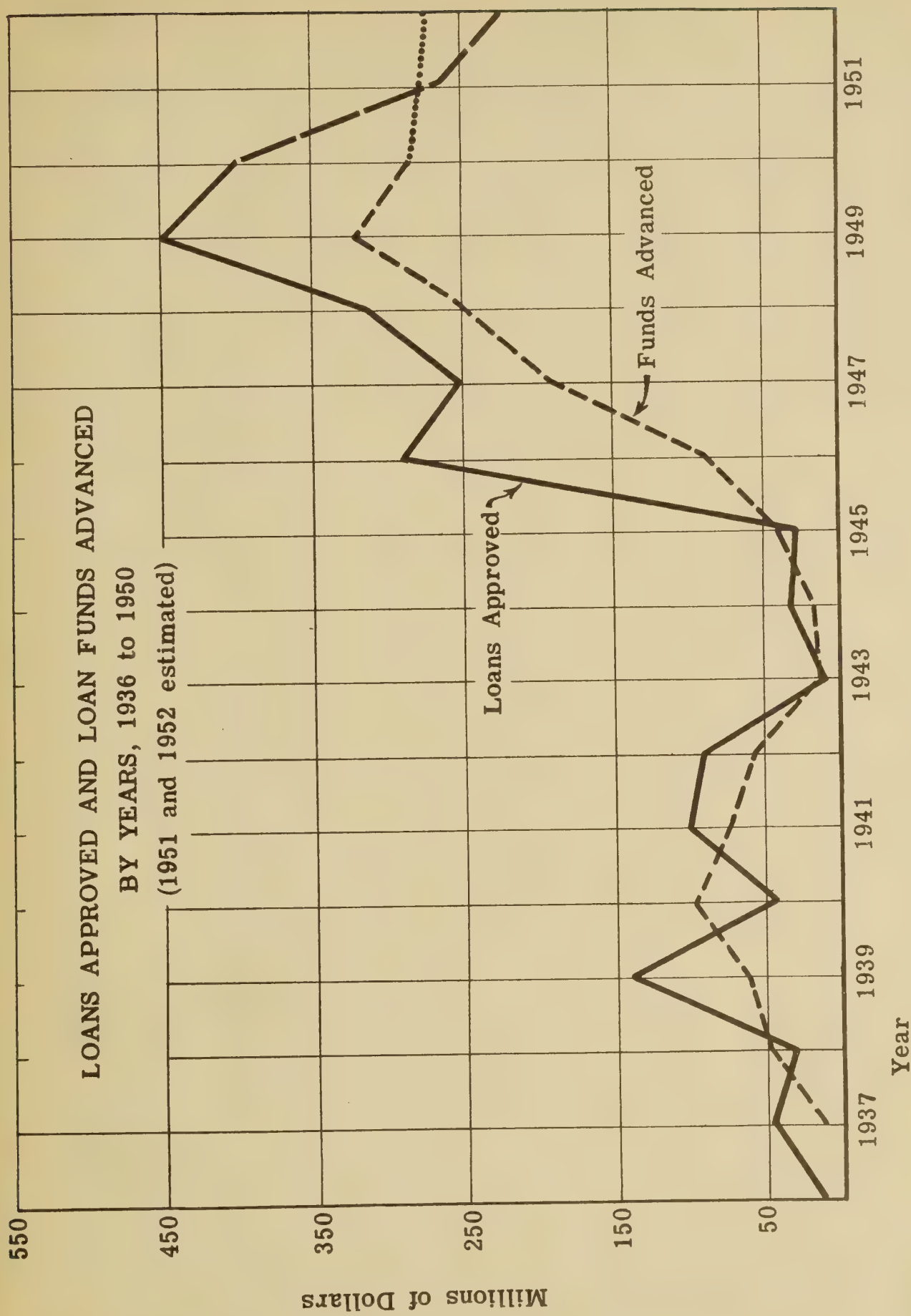
- LEGEND:
- 90 PERCENT AND OVER
  - 75 TO 89.9 PERCENT
  - LESS THAN 75 PERCENT

(Official REA Estimates)

Figure 3

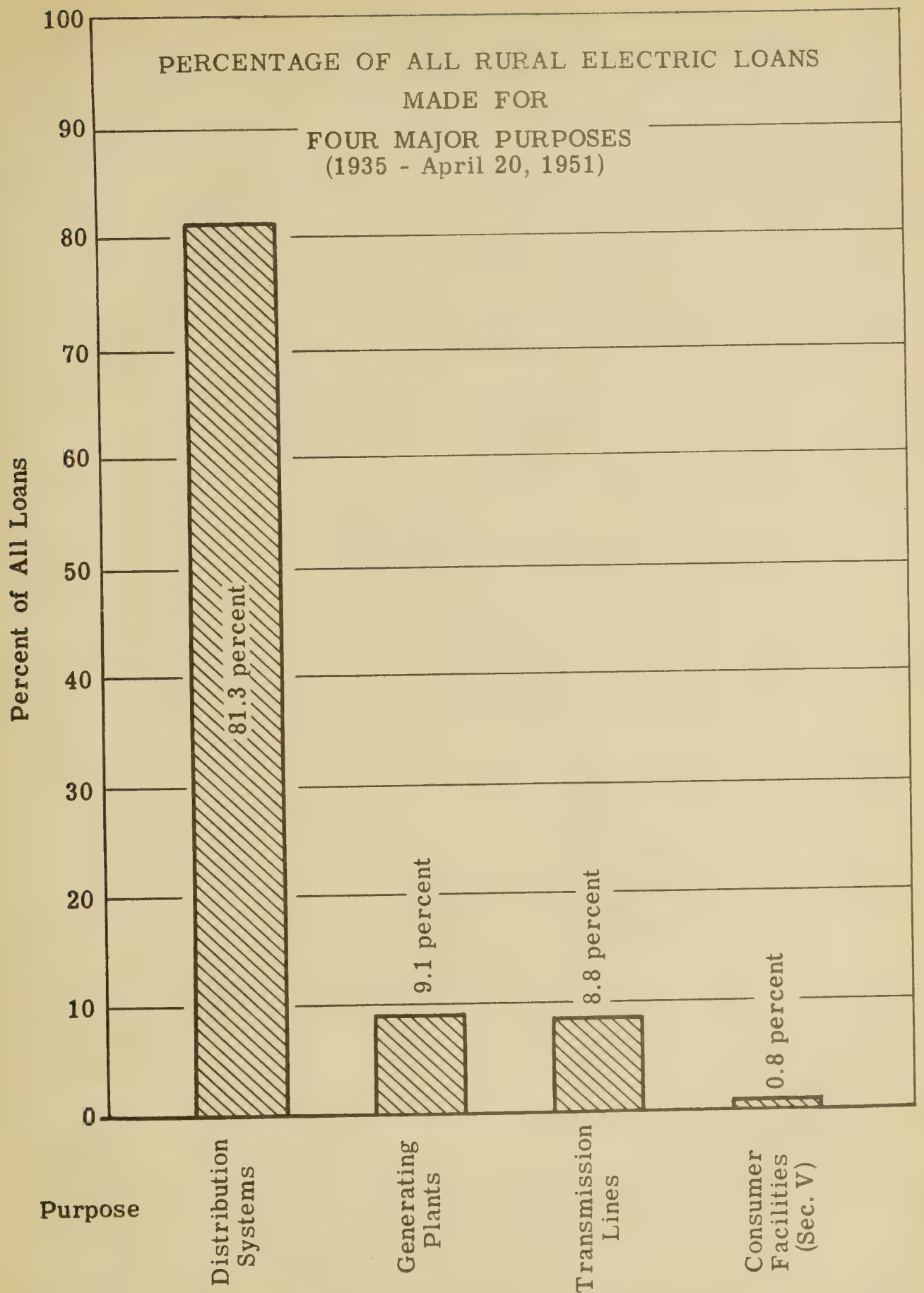












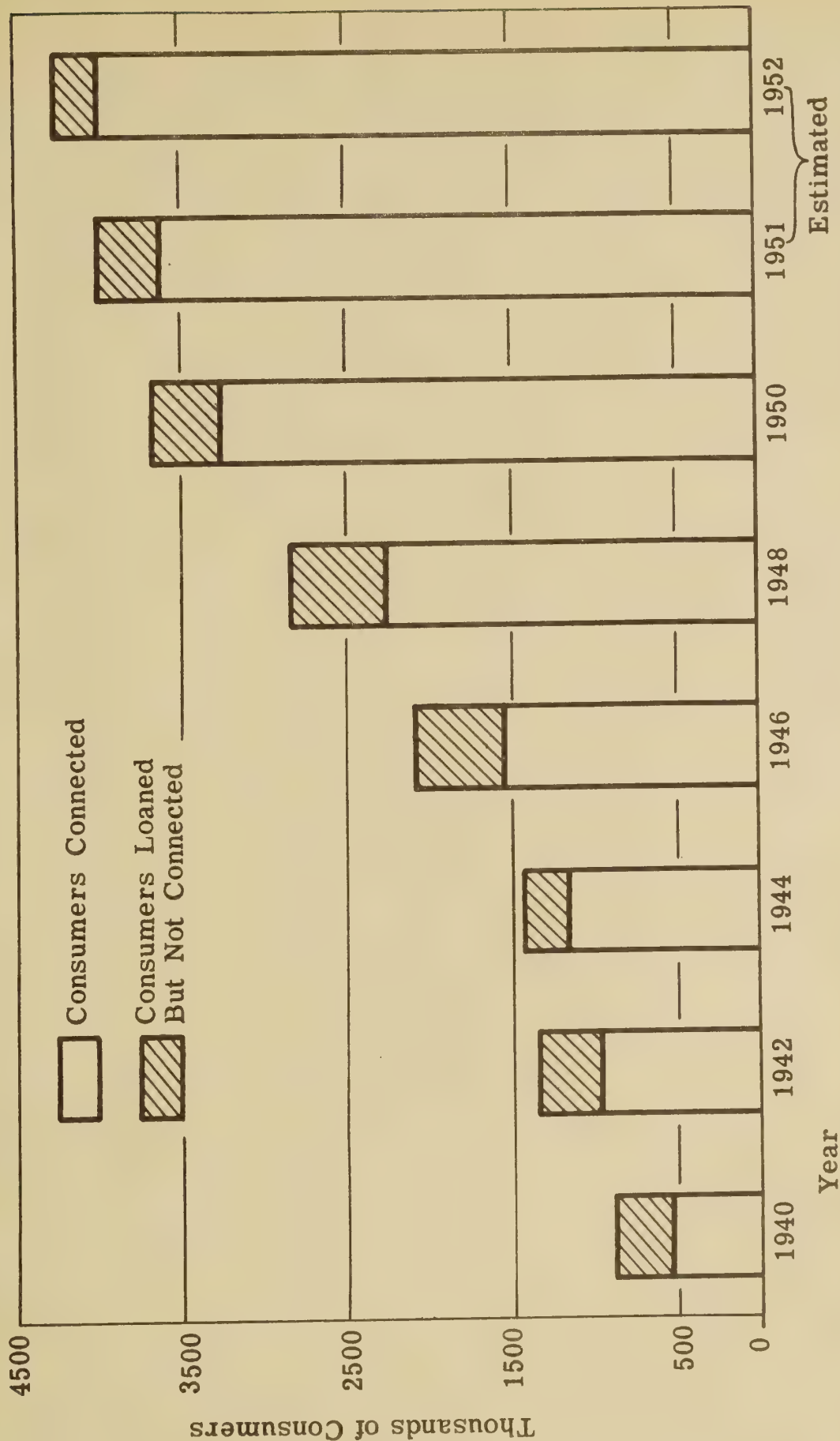
Department of Agriculture

Rural Electrification Administration

Figure 5



# CONSUMERS CONNECTED AND TO BE CONNECTED THROUGH ALL LOANS MADE (As of June 30 each year)



U. S. Department of Agriculture

Rural Electrification Administration

Figure 6





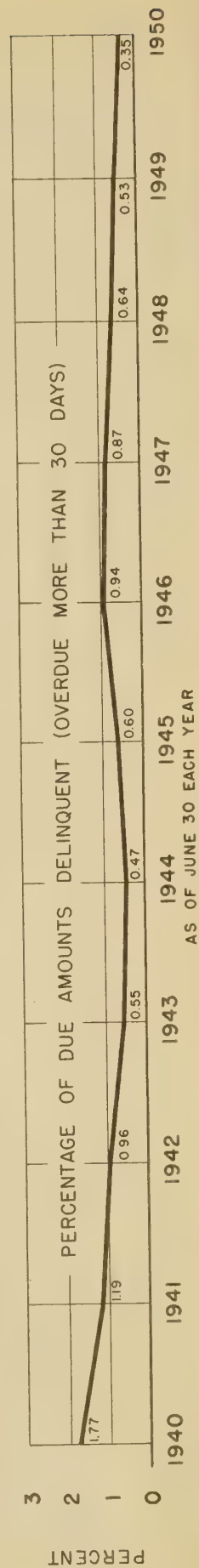
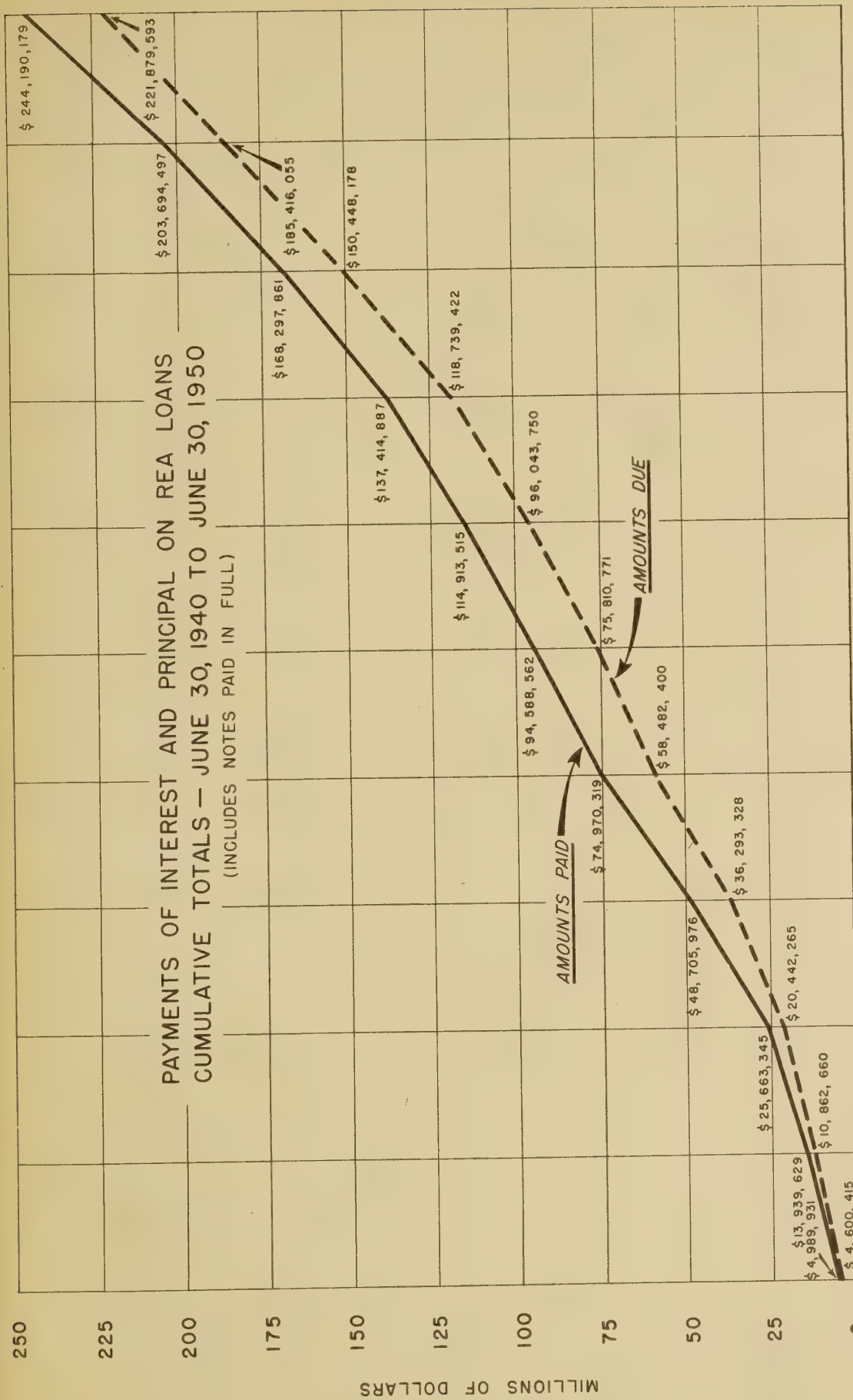


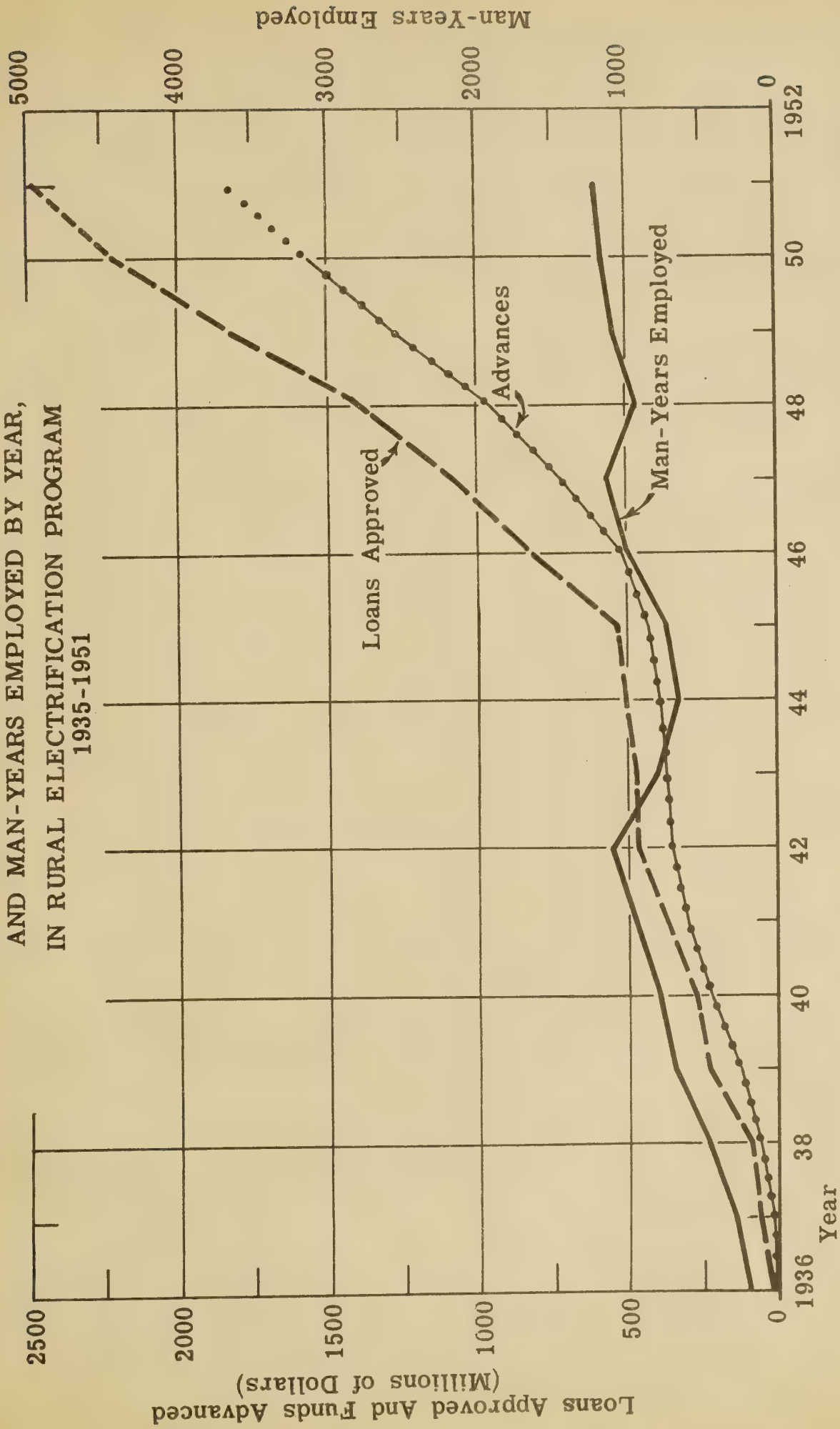
Figure 7





# LOANS APPROVED AND FUNDS ADVANCED, CUMULATIVE BY YEAR,

## AND MAN-YEARS EMPLOYED BY YEAR, IN RURAL ELECTRIFICATION PROGRAM 1935-1951



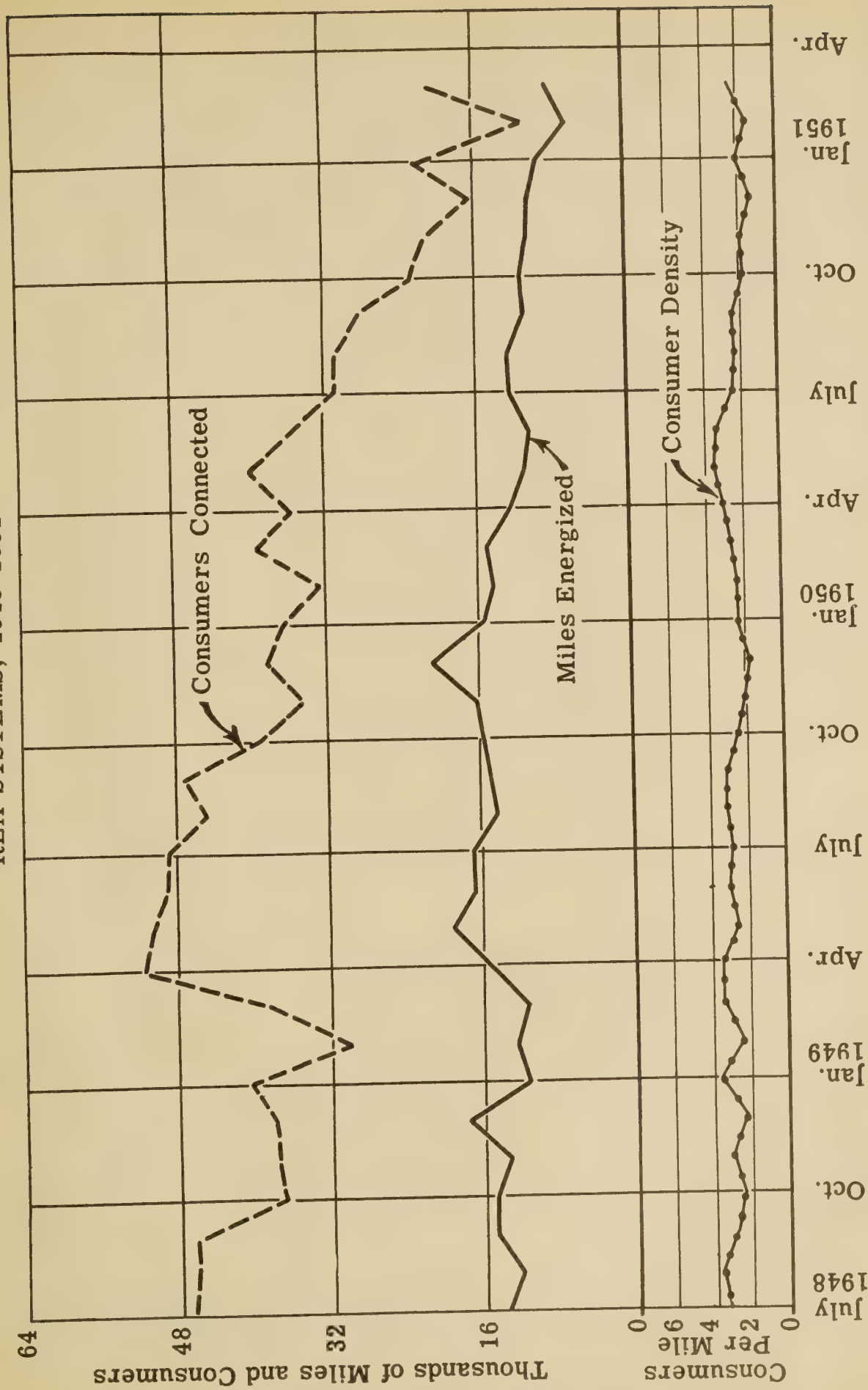
U. S. Department of Agriculture

Figure 8

Rural Electrification Administration



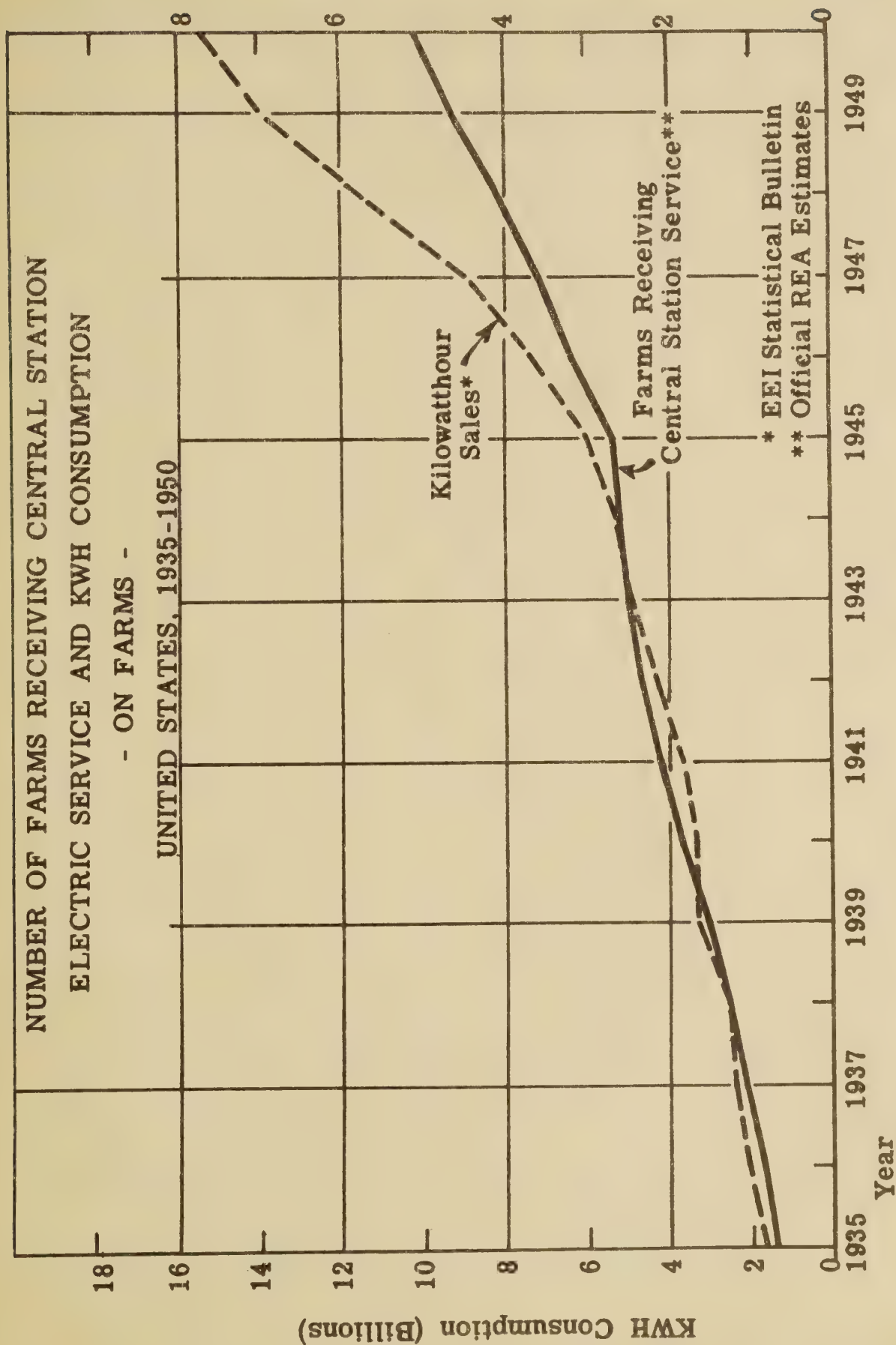
# MILES ENERGIZED, CONSUMERS CONNECTED AND CONSUMER DENSITY, BY MONTHS, REA SYSTEMS, 1948-1951



U. S. Department of Agriculture  
 Rural Electrification Administration  
 Figure 9

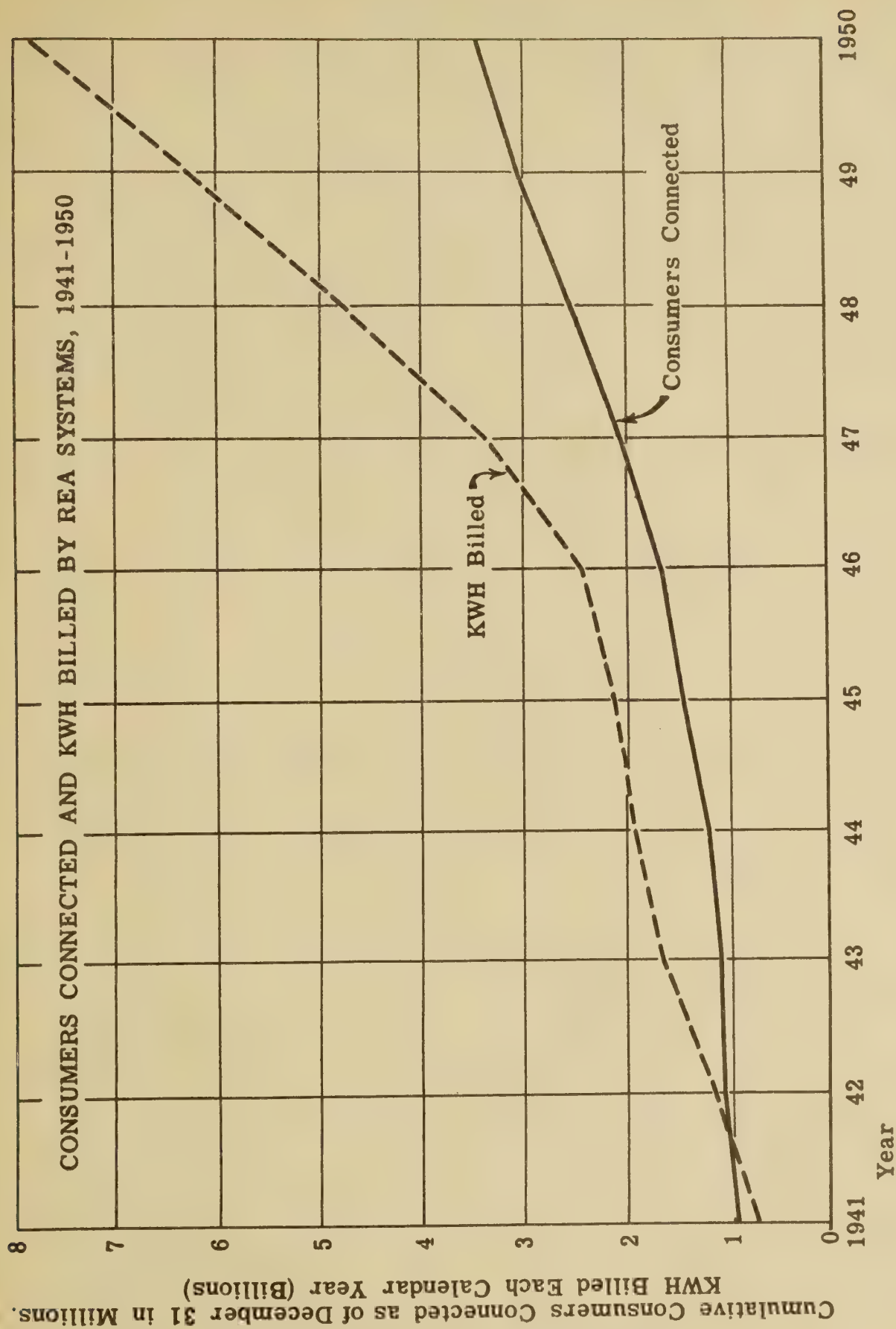












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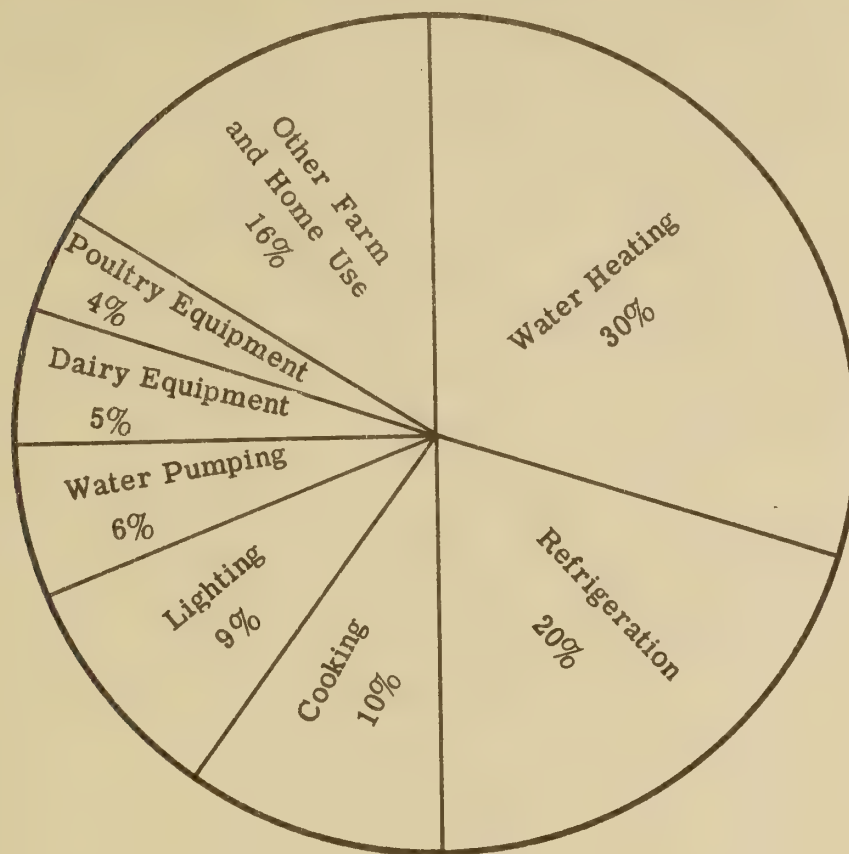
Rural Electrification Administration

Figure 11



# MAJOR FARM AND HOME USES OF ELECTRICITY MAKING UP THE

## KILOWATT HOUR LOAD OF REA BORROWERS



## PERCENT OF FARMS PLANNING TO USE ELECTRIC APPLIANCES AND EQUIPMENT OF SPECIFIED TYPES AS INDICATED BY FIELD SURVEYS OF REA BORROWERS

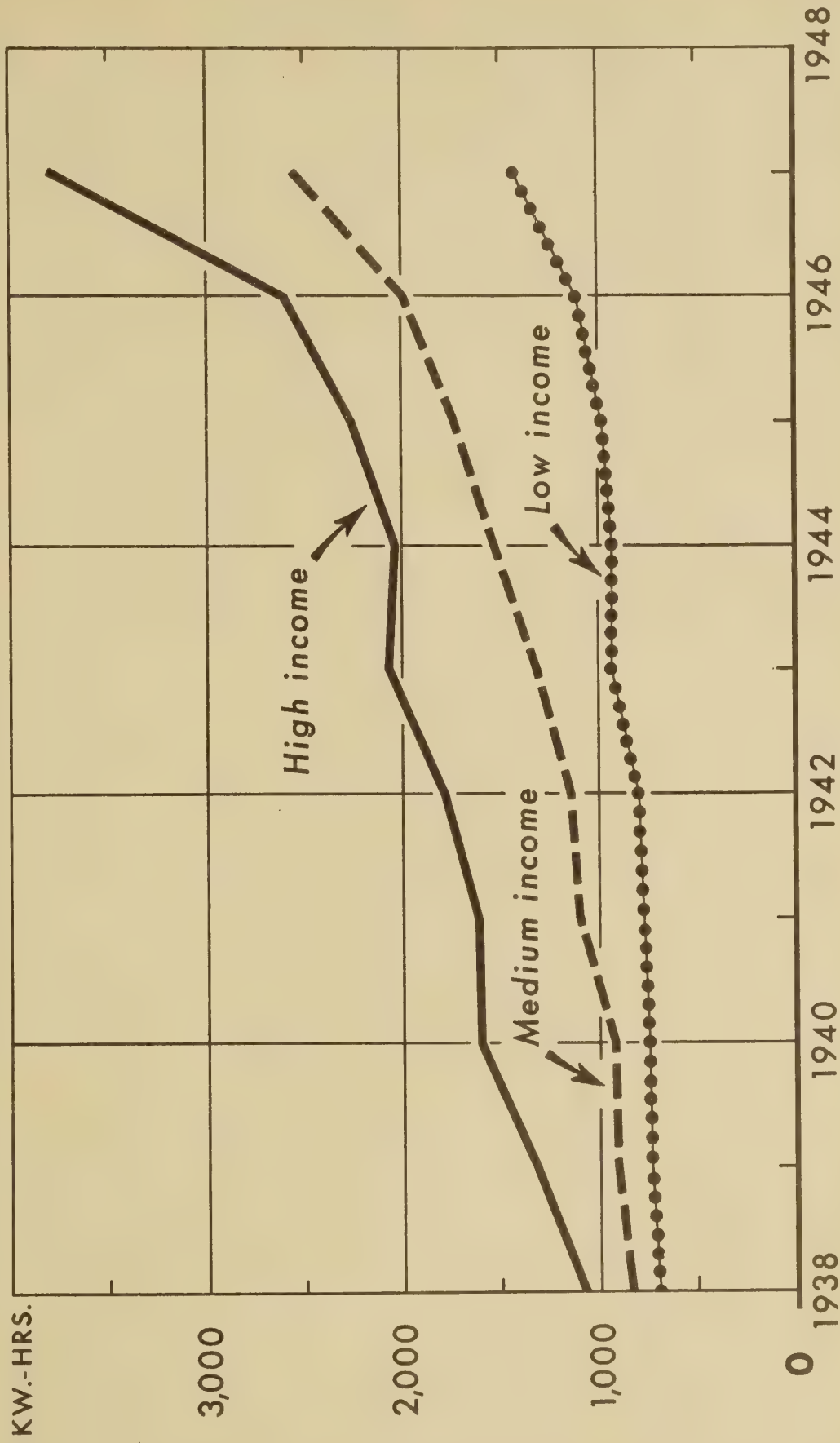
APPLIANCE	PERCENT	APPLIANCE	PERCENT
1. Lights	100	16. Waffle Iron	39
2. Radio	100	17. Water Heater	33
3. Iron	98	18. Food Freezer	32
4. Washing Machine	88	19. Pump Jack (Water Pumping)	29
5. Refrigerator	78	20. Hot Plate	28
6. Toaster	75	21. Range	27
7. Pressure System	62	22. Heating Pad	26
8. Tool Grinder	53	23. Welder	21
9. Vacuum Cleaner	46	24. Percolator	20
10. Drill Press	42	25. Evaporative Cooler	18
11. Household Fan	41	26. Milking Machine	16
12. Clock	41	27. Electric Fence	13
13. Food Mixer	41	28. Churns	11
14. Cream Separator	41	29. Milk Cooler	6
15. Poultry Brooder Hover	40	30. Freezer (Walk-In)	5

Source: Based on appliance surveys of 197 rural electric cooperatives in 33 states. These surveys covered approximately 25,000 farms. (Figures exclude irrigation)



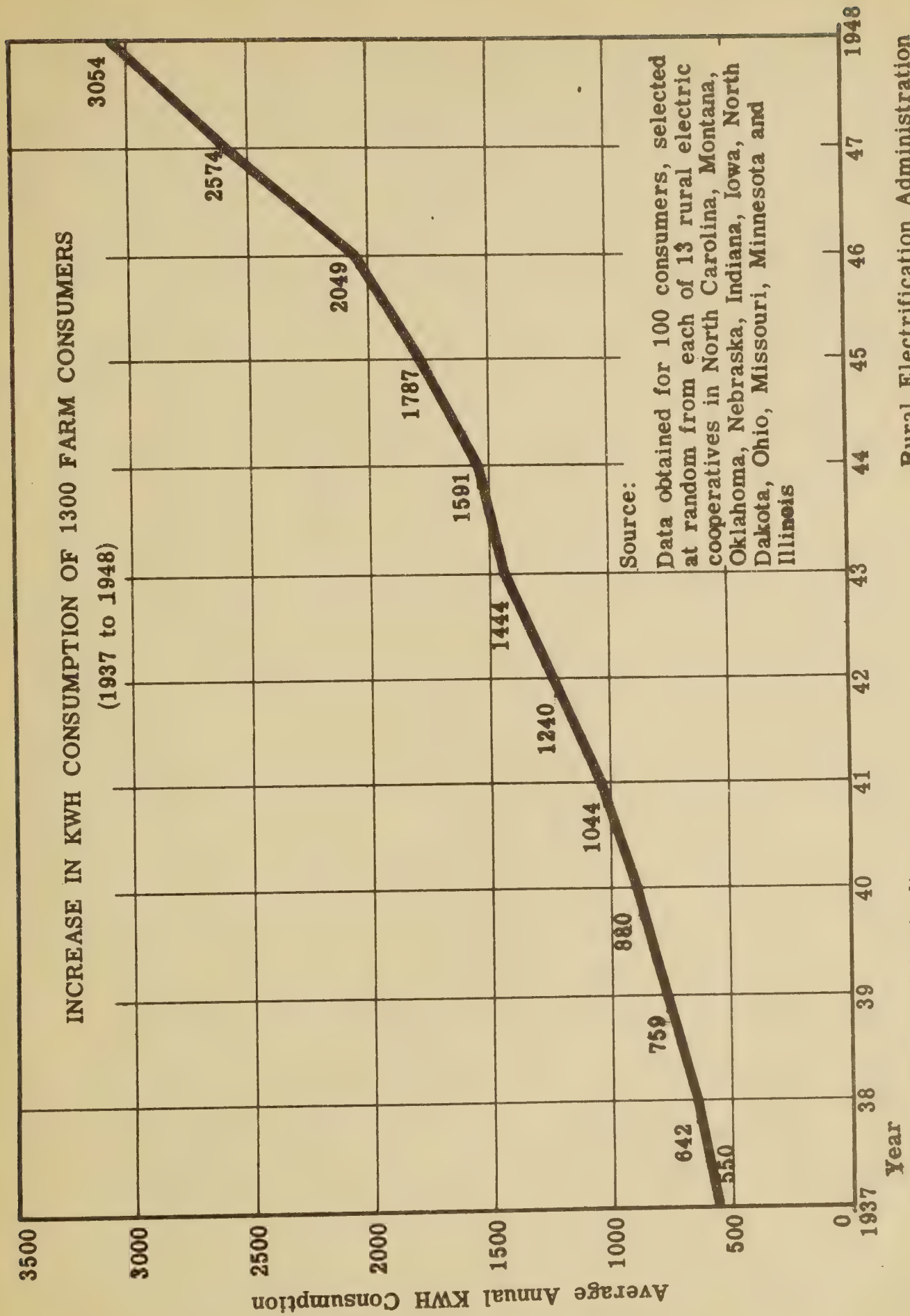


# **AVERAGE ANNUAL KW.-HR. CONSUMPTION, BY INCOME GROUPS, 1938-47** (ON FARMS ELECTRIFIED 5 YEARS OR MORE, EASTERN IOWA)











# PRODUCTION PER WORKER IN AGRICULTURE AND INDUSTRY

UNITED STATES, 1935-1948

INDEX NUMBERS (1935-39=100)

Index

Year

Gross Production  
Per Farm Worker

Production Per Worker in  
Manufacturing and Mining

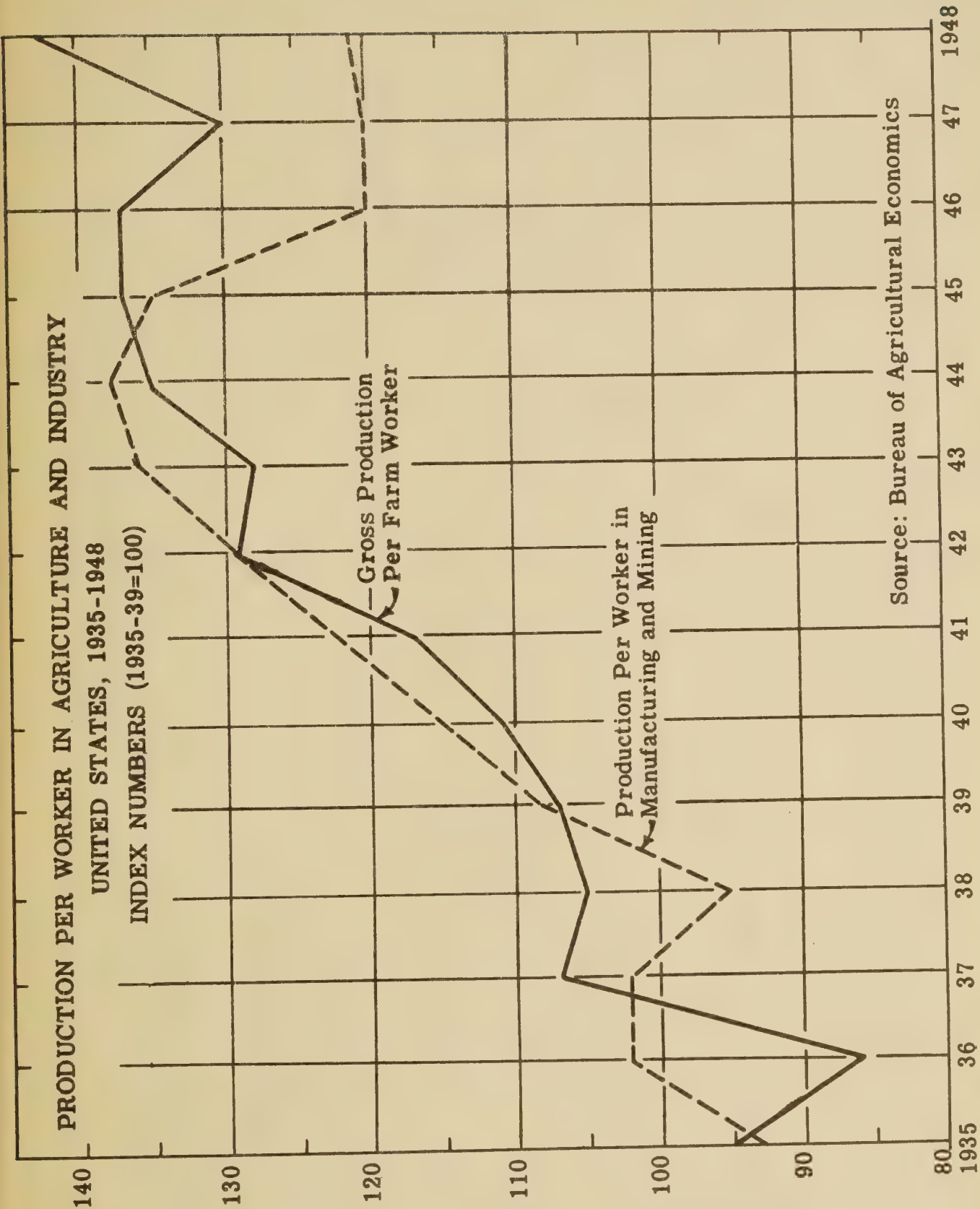
Source: Bureau of Agricultural Economics

1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948

U. S. Department of Agriculture

Rural Electrification Administration

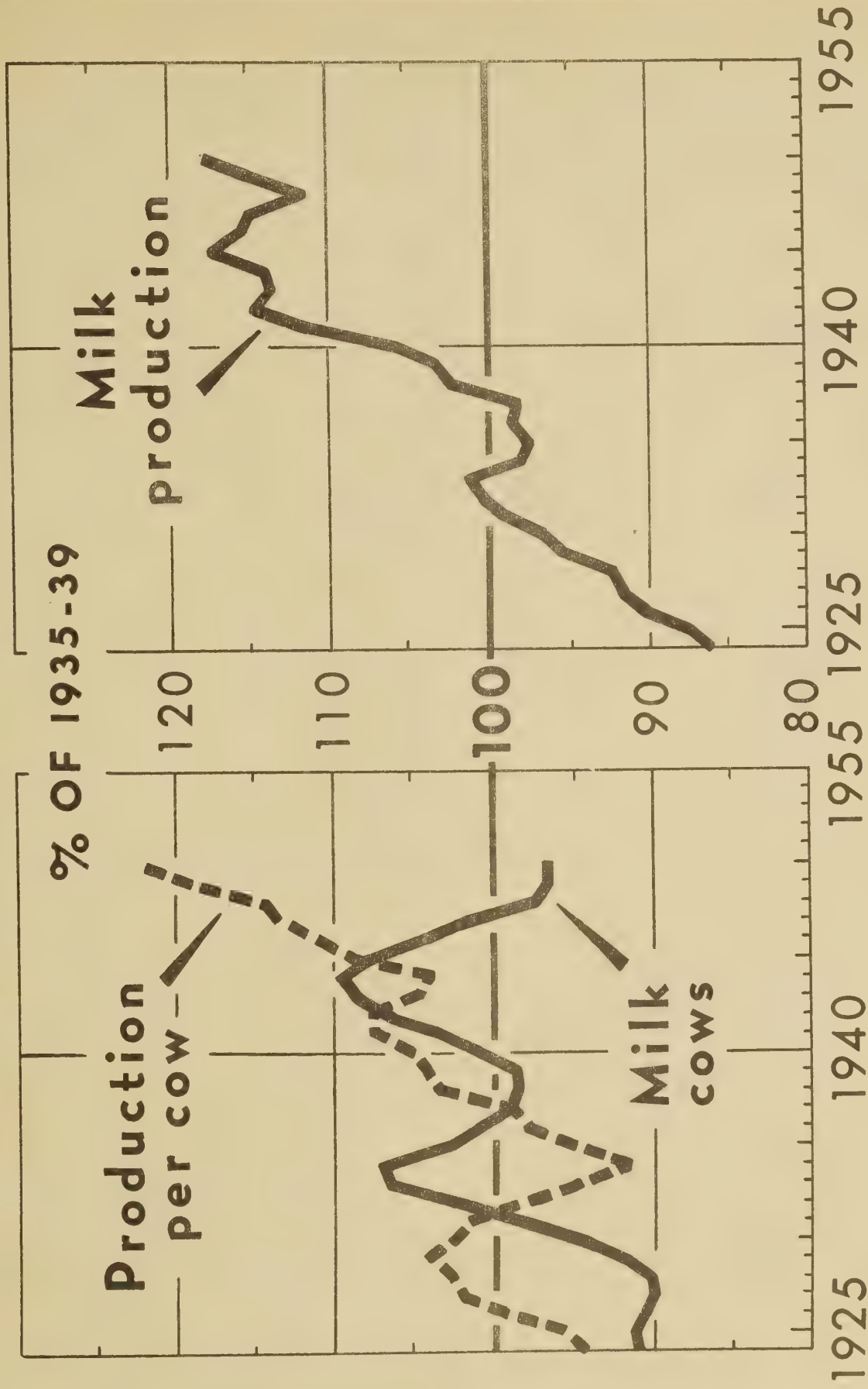
Figure 15





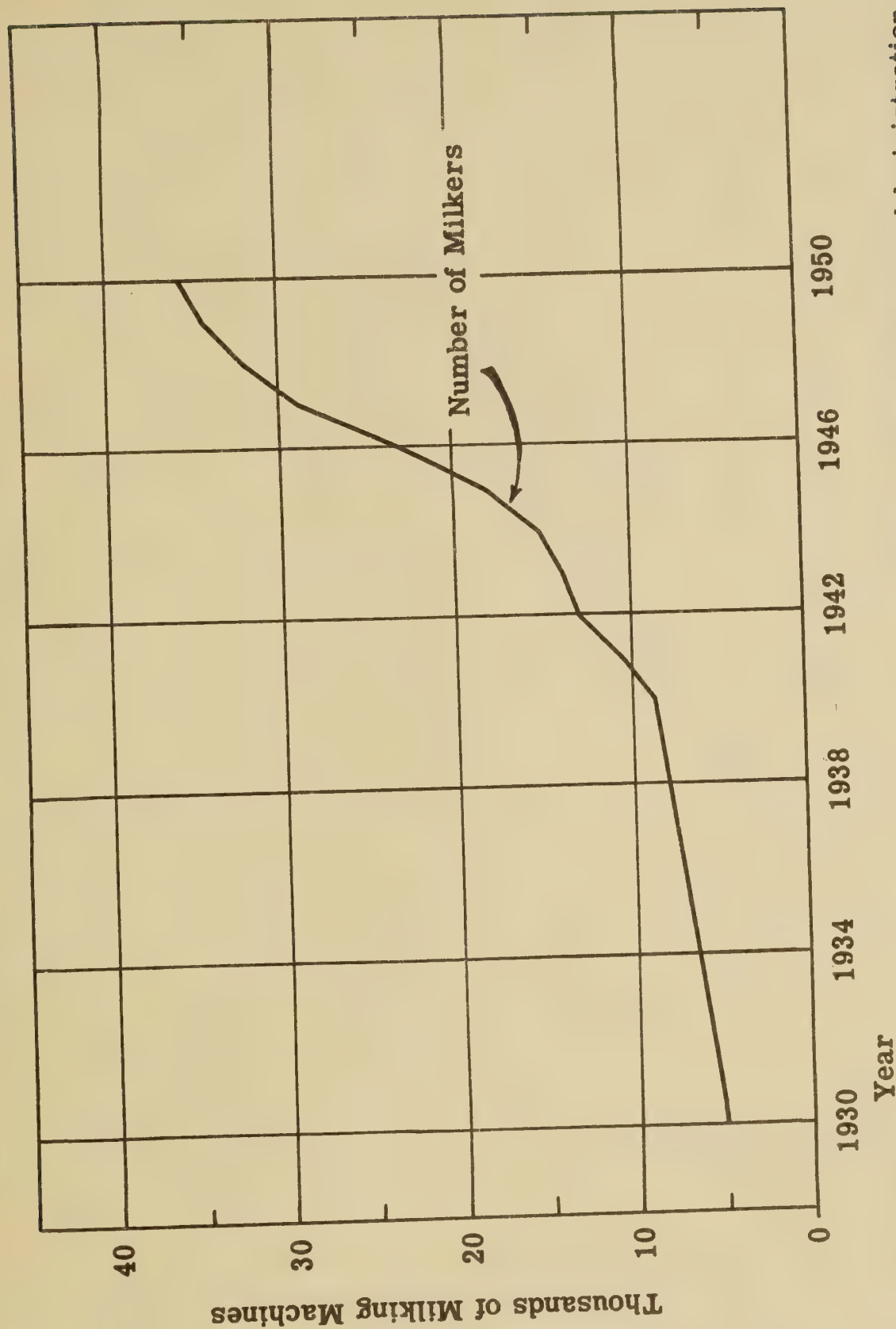


# MILK COWS AND MILK





# NUMBER OF MILKING MACHINES ON FARMS (1930 - 1950)



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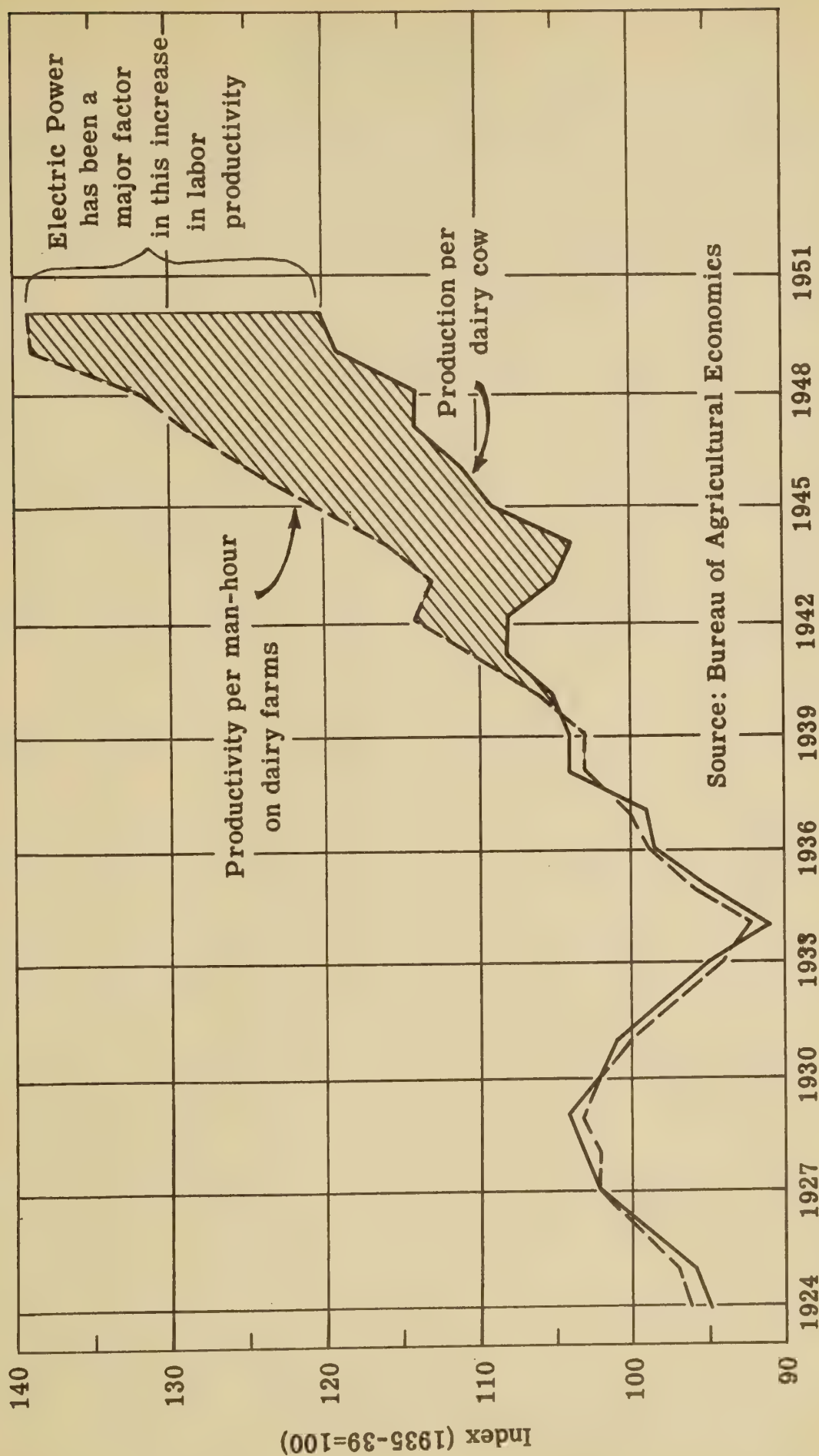
Figure 17

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COMPARISON OF PRODUCTION PER MAN-HOUR AND PRODUCTIVITY  
PER COW, INDICATING THE INCREASE IN  
LABOR PRODUCTIVITY RESULTING PRIMARILY  
FROM USE OF ELECTRIC POWER

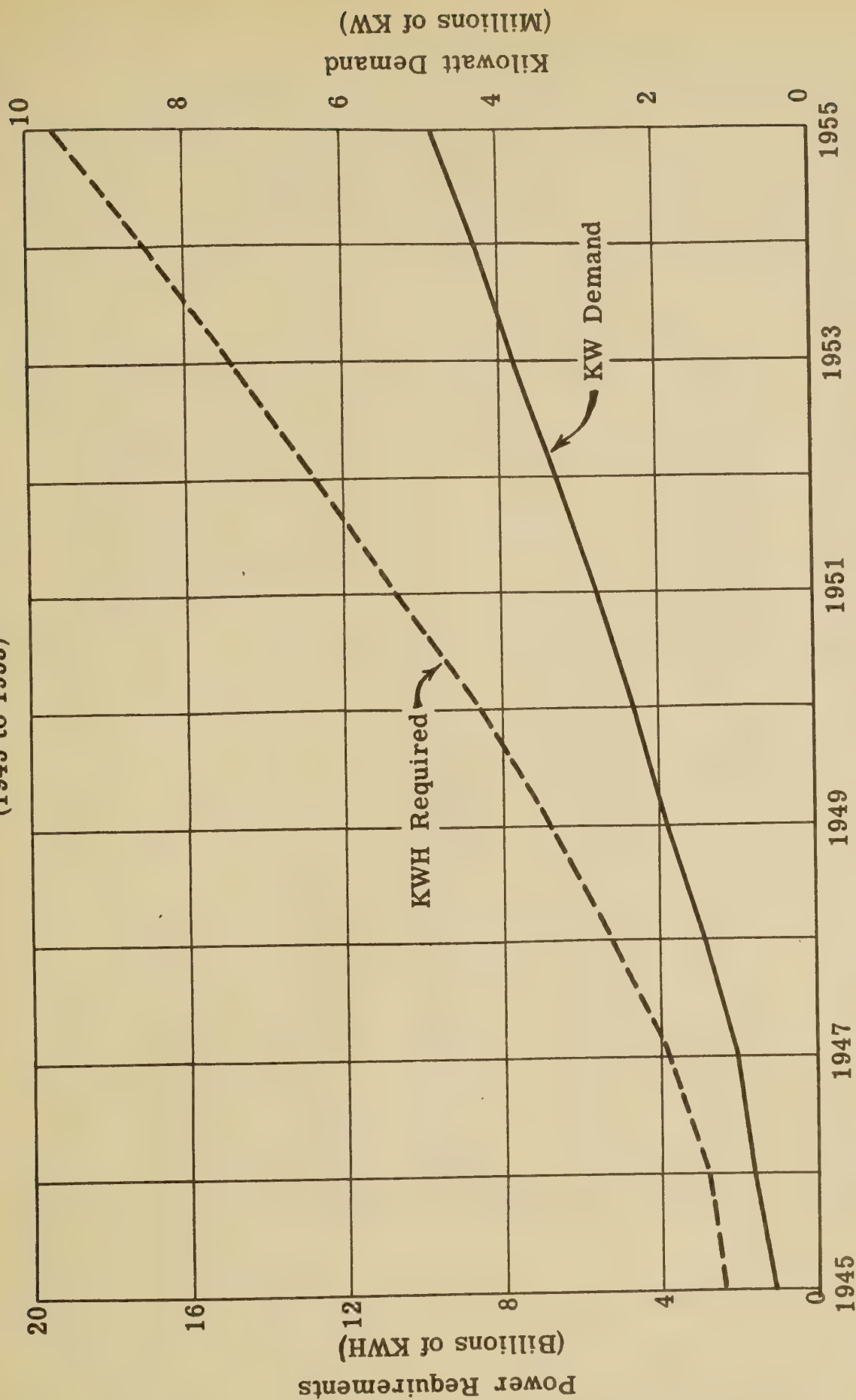


Year



# POWER REQUIREMENTS OF REA BORROWERS

(1945 to 1955)



Year

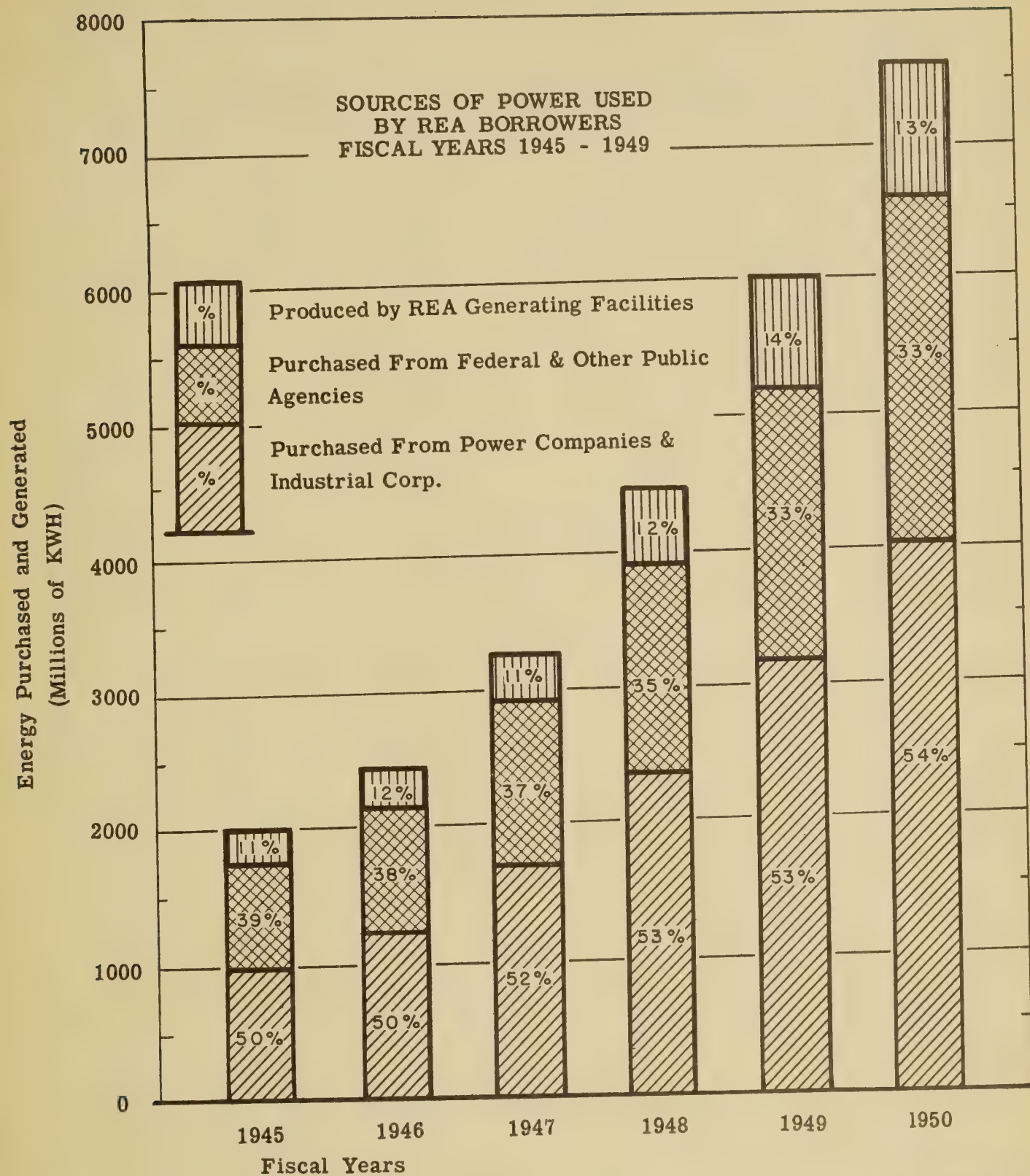
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Rural Electrification Administration

Figure 19





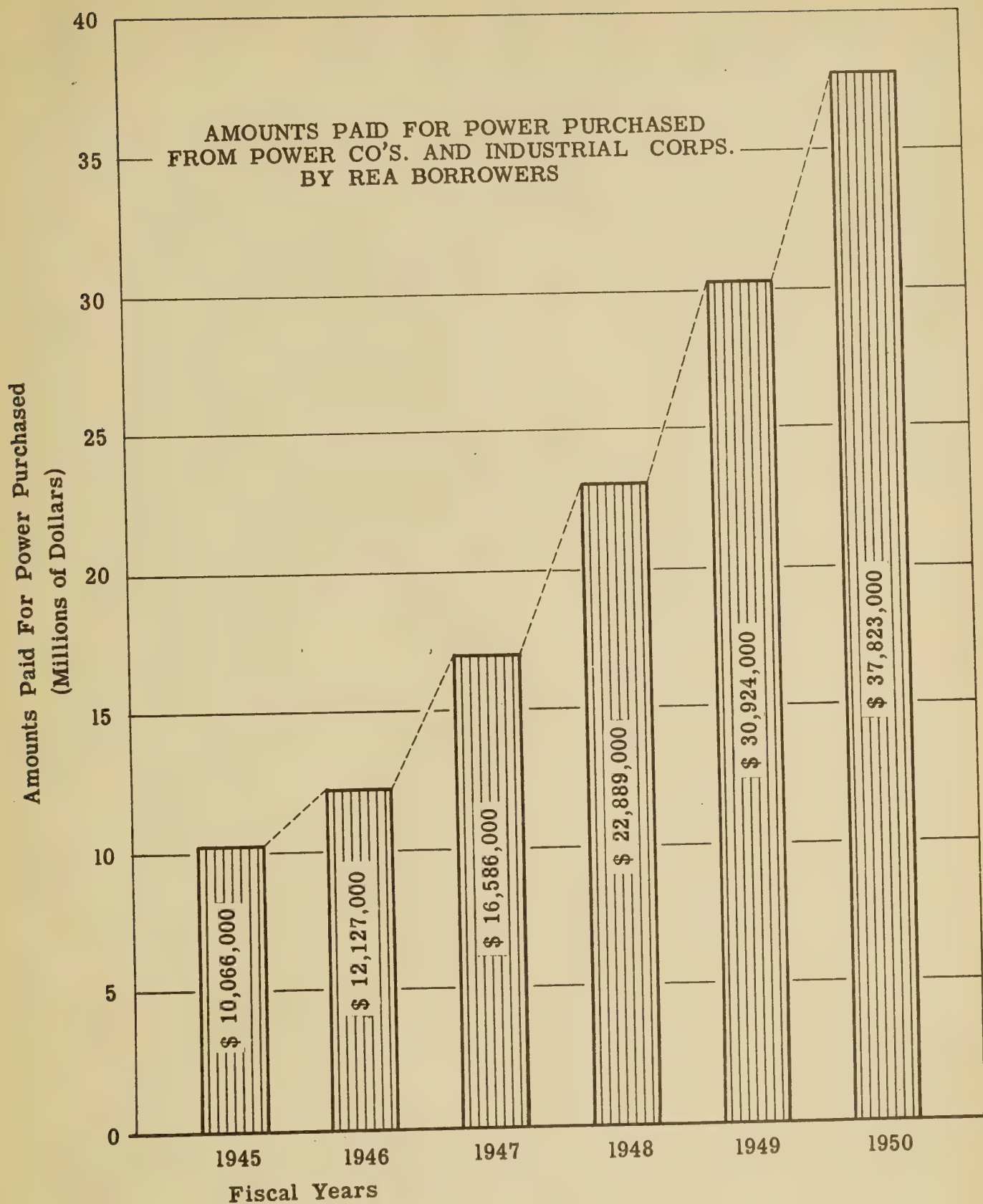


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Figure 20





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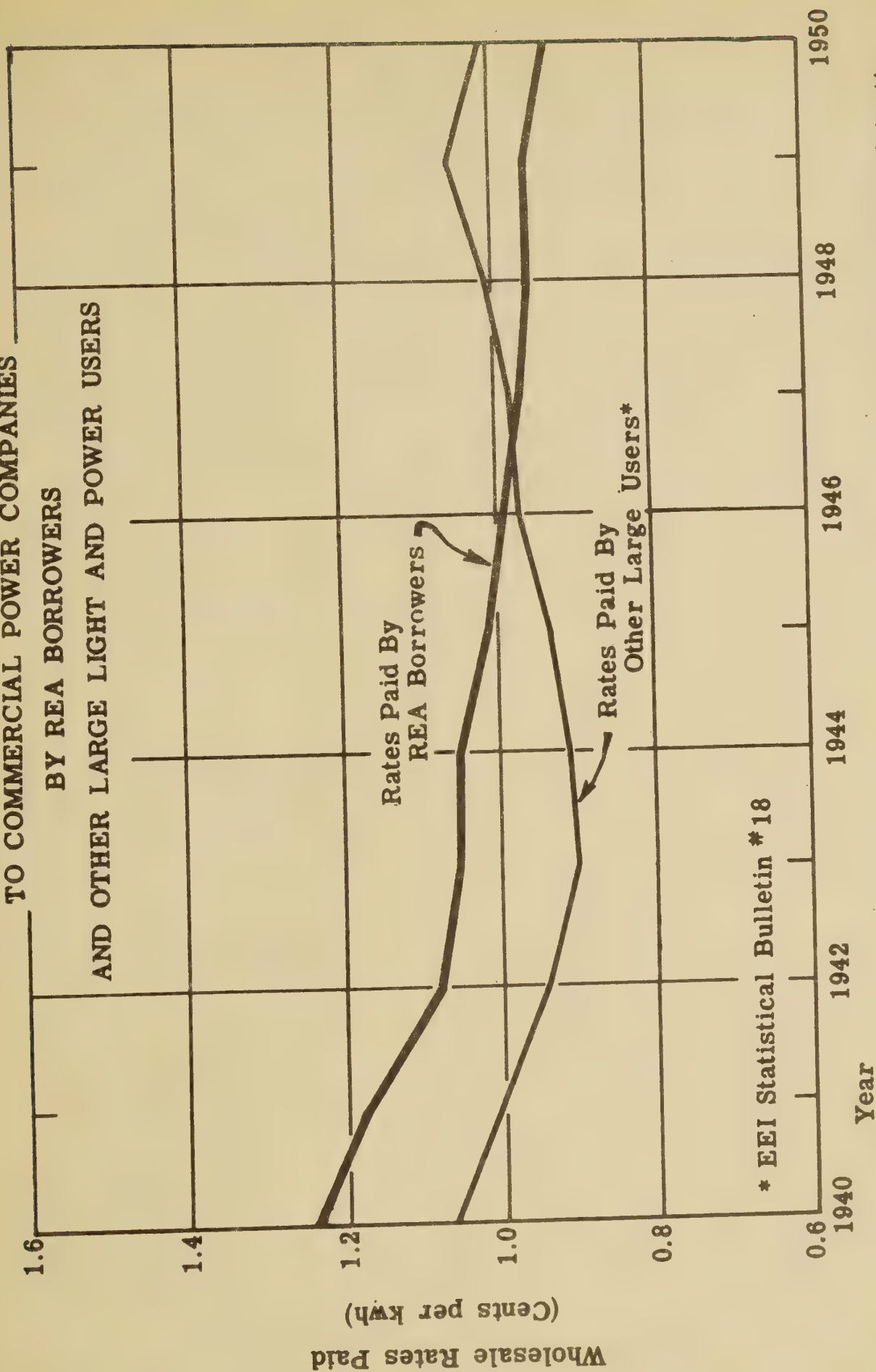
Rural Electrification Administration

Figure 21





# COMPARISON OF WHOLESALE RATES PAID BY REA BORROWERS TO COMMERCIAL POWER COMPANIES AND OTHER LARGE LIGHT AND POWER USERS



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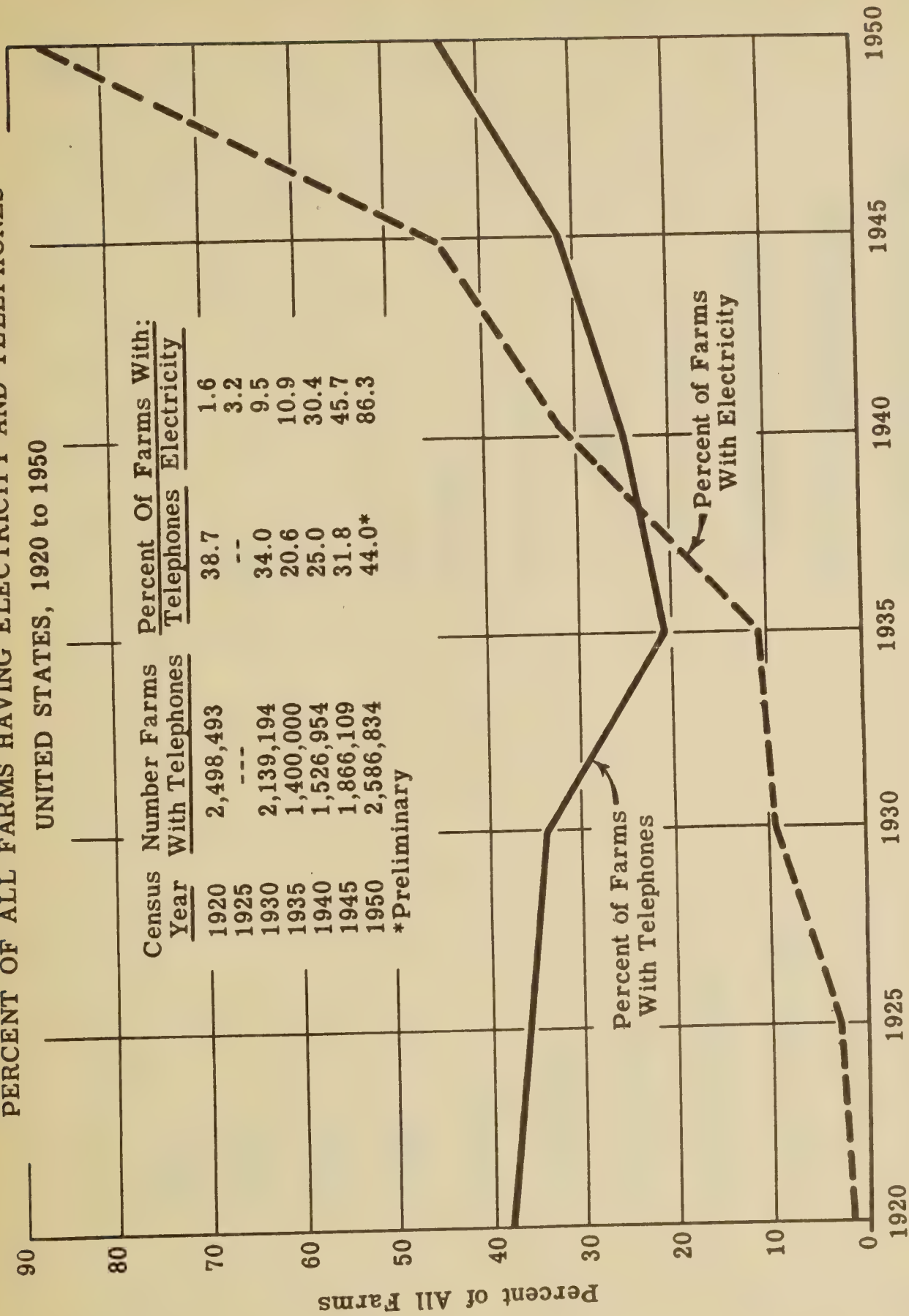
Figure 22

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# PERCENT OF ALL FARMS HAVING ELECTRICITY AND TELEPHONES

UNITED STATES, 1920 to 1950



Year

U. S. Department of Agriculture

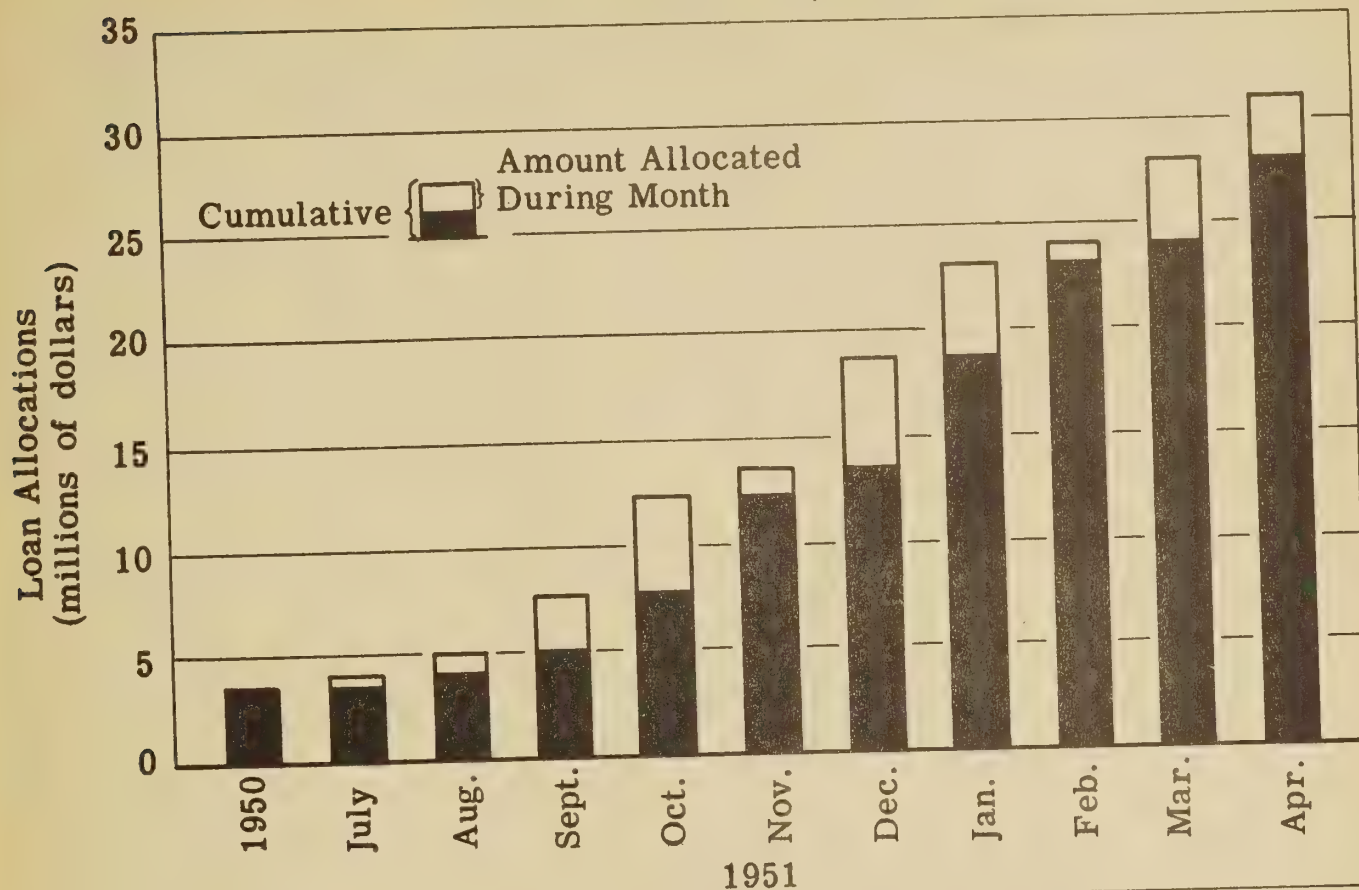
Rural Electrification Administration

Figure 23

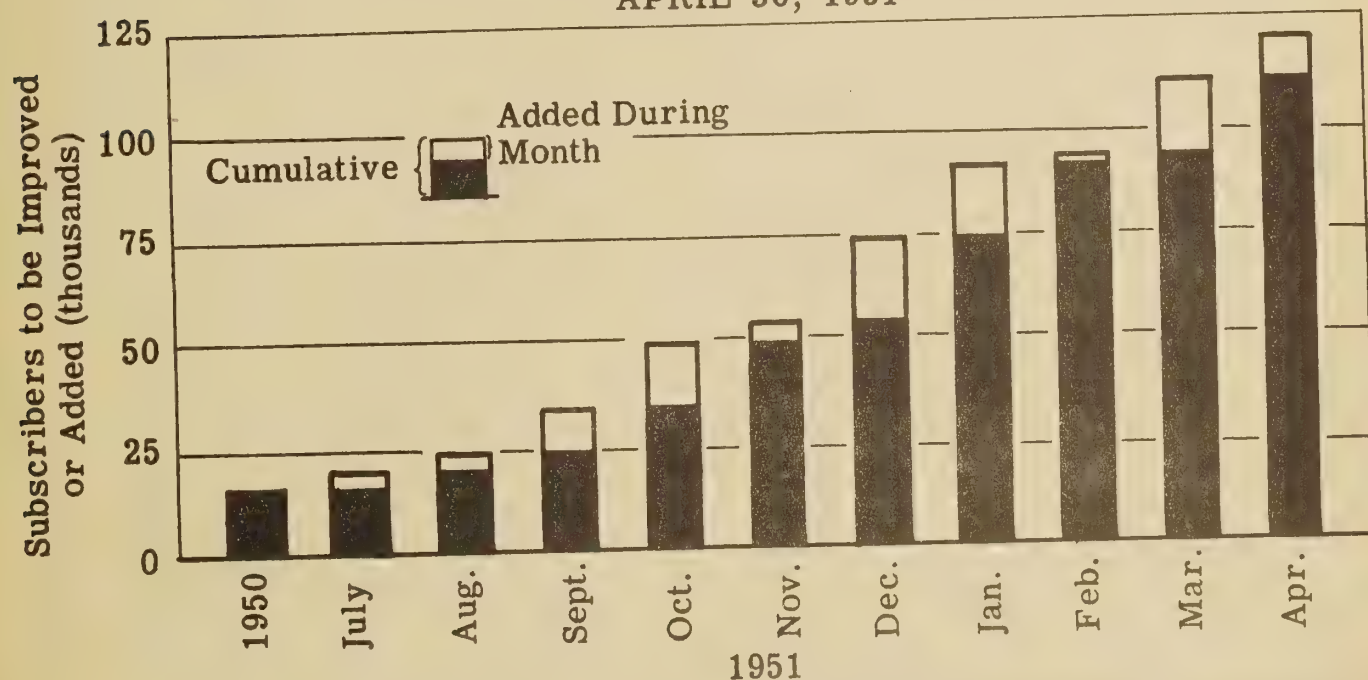




# RURAL TELEPHONE LOAN ALLOCATIONS CUMULATIVE TO APRIL 30, 1951



## SUBSCRIBERS SERVICES TO BE IMPROVED AND ADDED THROUGH RURAL TELEPHONE LOANS, CUMULATIVE TO APRIL 30, 1951



U. S. Department of Agriculture

Rural Electrification Administration

Figure 24



# COMPARISON OF TOLL REVENUES BEFORE AND AFTER IMPROVEMENT OF OUTSIDE PLANT AND CONVERSION TO DIAL SERVICE (September 1950)

FREDERICKSBURG-WILDERNESS TELEPHONE COMPANY

CHANCELLOR, VIRGINIA

With the conversion to dial service, a 10 cent toll charge to Fredericksburg, the principle trading center, was eliminated. Revenues from this source are omitted from this chart.

Number Subscribers

Number of Subscribers

Cut-over to Dial service, Sept. 15, 1950

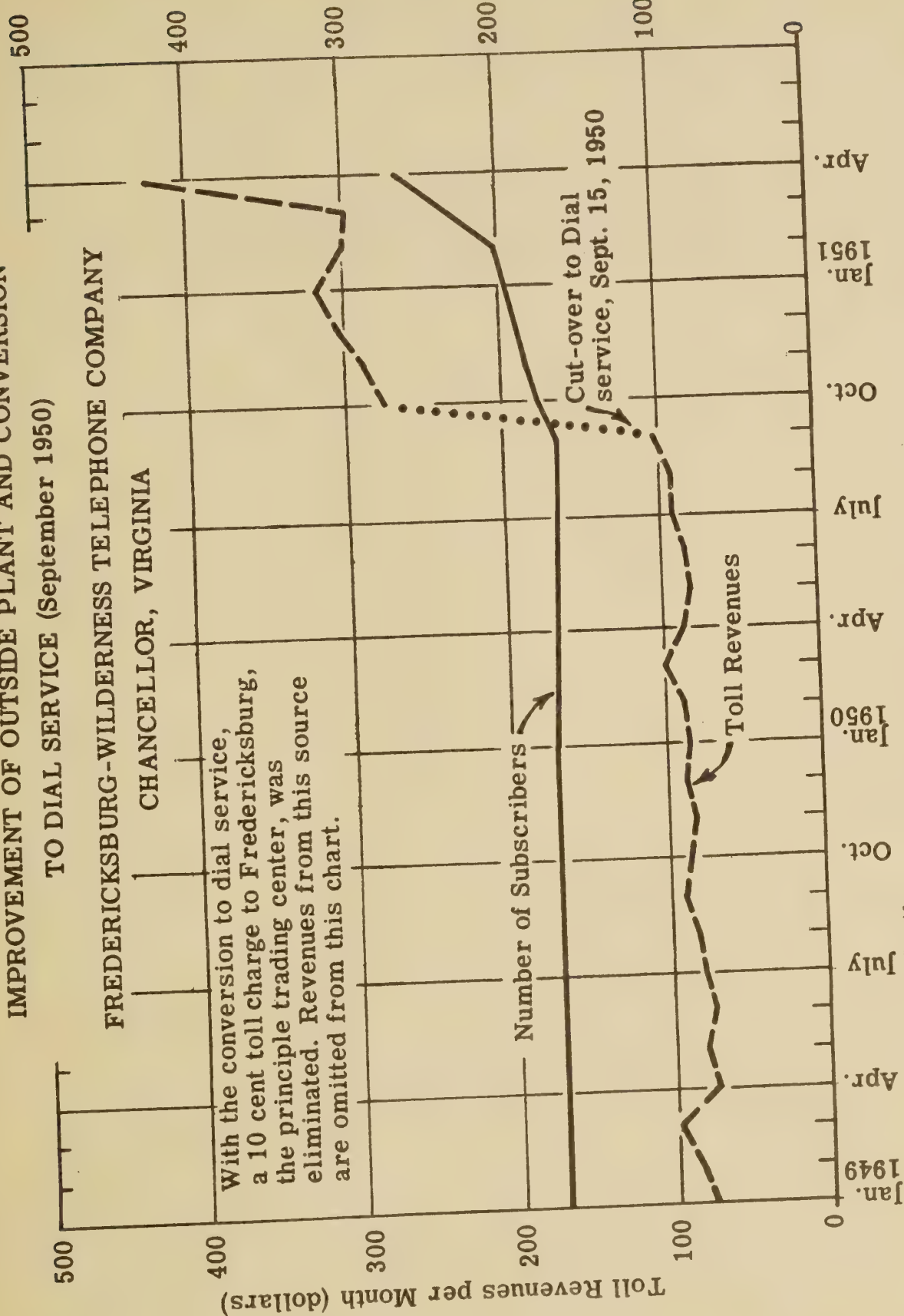
Toll Revenues

Year - Month

U. S. Department of Agriculture

Rural Electrification Administration

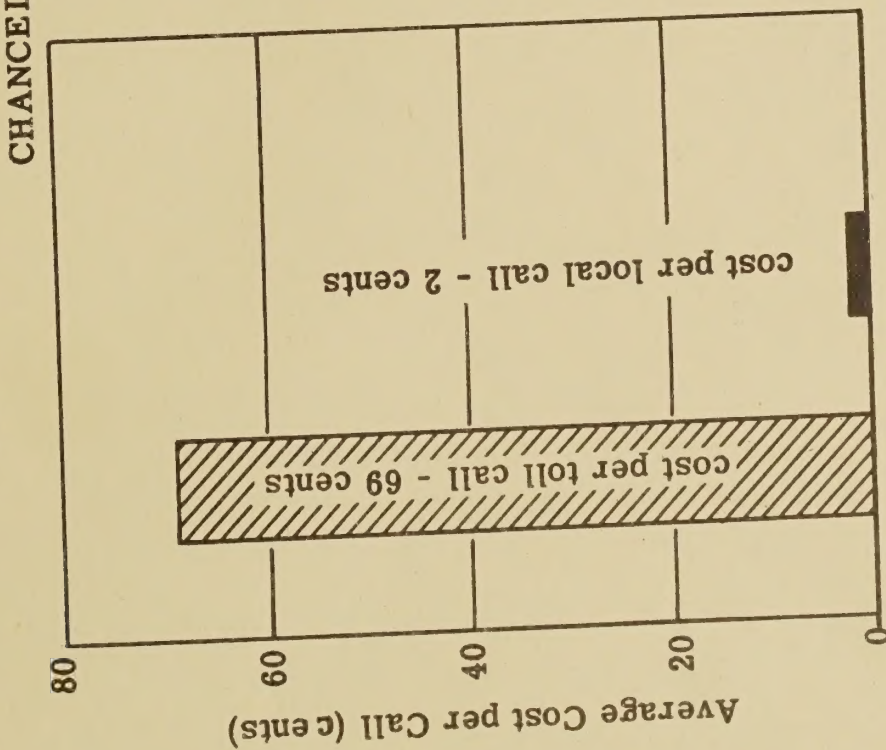
Figure 25



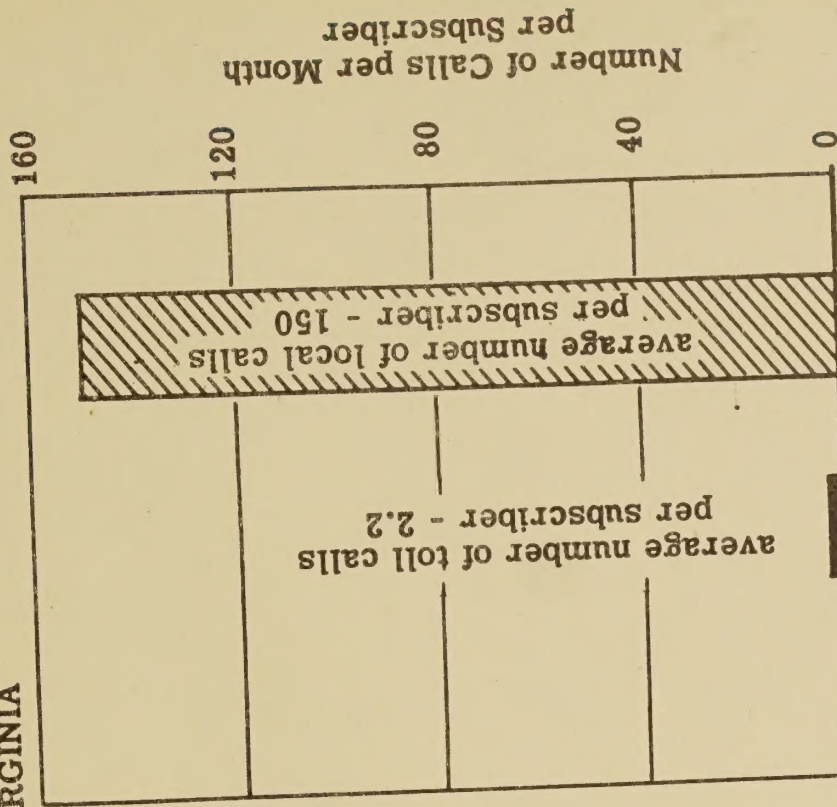




**AVERAGE NUMBER OF CALLS PER MONTH  
AND AVERAGE COST PER CALL**  
**FREDERICKSBURG-WILDERNESS TELEPHONE COMPANY**  
**CHANCELLOR, VIRGINIA**



U. S. Department of Agriculture



Rural Electrification Administration

Figure 26







